

Highlights

Recommendations to help chart the state's energy future were presented to the Washington state legislature in a 1993 report prepared by a governor-appointed committee. This fact sheet highlights the report's major areas of discussion and concludes with a summary of the specific recommendations for action. The Washington Energy Policy Group is the lead agency for implementing Washington's Energy • Why a State Strategy? • Major Areas of Discussion Specific Recommendations for Action

Energy costs the citizens and business of Washington \$9.3 billion a year. That's a larger part of

Washington's economy than forest products and more than twice the size of the state's agricultural or fishing industries. Energy's multi-billion dollar price tag makes it one of the key factors that define the state's economic opportunities. In addition, we will likely see a \$5-\$8 billion investment in Washington state's energy sector in the next decade. These funds will be needed in a number of areas, primarily to achieve more conservation, develop renewable resources, and expand natural gas pipeline capacity. These cost-effective steps will help ensure adequate energy for the future, while providing economic

In 1991, the Washington Energy Strategy Committee, authorized by the legislature and appointed by the

petroleum use was rising; and a growing population combined with efforts to protect endangered salmon

Over the last two years, the challenges for Washington's energy system have become greater. The Trojan nuclear power plant on the Columbia River has been shut down by its owners, and concerns have been raised about the cost-effectiveness of the WNP-2 nuclear plant at the Hanford Reservation. Potential stresses on transmission capacity, and the need to protect other Columbia River fish may require major

The Committee took great pains to develop an energy strategy that emphasizes jobs, economic wellbeing and environmental protection. Its recommendations rely on known cost-effective technologies, beginning with improved efficiency, renewable resources, and wise use of natural gas. The Committee

felt strongly that many options need to be pursued simultaneously to solve energy problems.

The Committee estimates that per capita energy use can be reduced by 10 to 20 percent, if

eliminate at least two-thirds of the state's projected growth in carbon dioxide emissions.

recommendations are fully implemented in all sectors--commercial, industrial, residential, and

transportation. This would reverse a recent trend of rapid energy growth. Estimates also suggest that doing so will keep increases in energy costs at or below the level of inflation. Finally, the actions will

 $m{T}$  he strategy includes a wide ranging discussion that provides a complete picture of Washington's

Over the last decade, the number of vehicle miles traveled in Washington shot up more than two-and-a-

half times the rate of population growth. The state faces the challenge of meeting demand for

transportation services while at the same time minimizing congestion, environmental impacts, and

In 1991, federal legislation--the Intermodal Surface Transportation Efficiency Act (ISTEA)--shifted emphasis from constructing highways to developing a transportation system that promotes energy

While integrated planning is a key to long-term transportation improvements, action cannot await development of a perfect plan. The Committee made specific recommendations on changing the way people travel; developing substitutes for transportation; using alternative fuels; and improving the

**Natural Gas:** Washington relies chiefly on natural gas from Canada and the Rocky Mountain region. Gas has become cheap and plentiful, but this does not mean it solves all problems. Washington State

The Committee recommends making gas more available for use directly in residential space and water heating. This is more efficient than using gas to generate electric power for the same functions. To emphasize efficient use of gas, cost-effective conservation programs developed and implemented by natural gas utilities are important. Careful assessment of cost-effective fuel choice and expanding the

**Electricity:** For at least a decade, the Pacific Northwest electric system has had a surplus of power. Our ability to sell surplus power has kept the cost of electricity low. The state faces a need for immediate and

resources: conservation and efficiency, renewable energy resources, cost-effective fuel substitution, and

The Committee feels strongly that action is called for now. The Strategy is based on moving forward on

Environmental problems and their solutions are closely tied to how we develop and use energy. As the Committee developed recommendations for electricity, gas, and petroleum policy, it examined the many interactions between energy and environmental policy. The strategy calls for numerous actions that will contribute to greenhouse gas emissions stabilization. The goals and programs that have been identified can reduce the growth in carbon dioxide releases by between half and two-thirds by 2010. This reduction will require effective implementations of the many actions in the strategy. If the state grows less rapidly

The Committee charged the Washington State Energy Office (WSEO) with identifying additional actions

on greenhouse gases that might reduce emissions further. The Committee also believes that our Congressional delegation should support a national CO2 and greenhouse emission target. It also recommends that the state's environmental regulators emphasize the use of creative market-based

Siting energy facilities has never been easy. In the state of Washington, siting is not a coordinated process. All layers of government--local, state, and federal--may be involved in siting a particular facility. Each agency sets its own schedule for review and may include in its review the same issues

impacts; environmental impacts; economic impacts; and alternatives to the proposed approach.

Increasing public understanding about energy is a common theme throughout the strategy. The

will train people for emerging or expanding careers in the energy field.

Specific Recommendations for Action

o integrates planning for different modes of travel.

Committee's recommendations strongly endorse more learning opportunities for K-12 students, better and more information for all citizens, and new programs in our technical colleges and universities that

• Washington State Department of Transportation (WSDOT) should establish a least-cost planning

o specifies the goals of the transportation system and objective measures for each goal.

o involves appropriate agencies with environmental, energy, and land use expertise.

The state should make cost-effective investments to improve the rail system for greater use in the

• The state should complete construction of Puget Sound Area HOV lanes; arterial connections to the system; ramp access; and the parking, pedestrian, and bicycle access necessary for bus and

• WSDOT, cities, and counties should provide opportunities for safer and more accessible bicycle

WSDOT, should develop a specific proposal for congestion pricing pilot program, whereby users

The Washington Utilities and Transportation Commission (WUTC) should work with WSEO to

• The state should develop a model telecommuting program and policies that could be adapted by

• The Department of Information Services (DIS) should continue to work with public and private

The department of Ecology and General Administration and WSEO should work together to

ensure that current state purchasing requirements for clean-burning vehicles fit federal mandates. • The state should develop the infrastructure necessary for alternative fuel experiments and WSEO

The public should be advised on conversions of private vehicles to specific alternative fuel only

The Department of Ecology should develop emissions performance standards for alternative fuel

• WSEO, WSDOT, and the Department of Revenue should better define "alternative fuels" and

Columbia, Washington, Oregon, and California) effort to ensure maximum learning, minimal

The WUTC should work to improve the energy efficiency of the trucking industry by developing

The state should revitalize the state rail abandonment program to avoid further railroad right-ofway losses and, where appropriate, purchase and preserve abandoned rights-of-way for use as

• The state should seek our congressional delegation's support for increased federal Corporate

The state should propose that the western states expand purchasing consortia to include vehicle fleet purchases, with the aim of stimulating auto manufacturers to develop safe, higher-mileage,

The Department of Revenue and Licensing and WSEO should develop a proposal for the 1994 legislative session to change the current license registration and excise tax system, so that it

charges less for vehicles with better mileage/emissions performance and more for vehicles with

• The state should examine all transportation funds and reprogram the funds to promote efficiency

• The state should realign existing taxes to reinforce policy goals, particularly to ensure that tax structures do not provide incentives to increase vehicle miles traveled, increase emissions, or

• The state should take advantage of available federal funds for developing new programs or

The state should raise new revenue by taxing the commodity or activity causing the problem.

to sale of vehicle fuels, repealing tax exemptions for alternative fuels, and repealing the 18th Amendment to the state constitution so that existing gas tax money may be used for other

WSDOT and WSEO should jointly develop a technical assistance program that demonstrate

• The state's gas utilities should work closely with WSEO and WUTC to develop and implement

Gas utilities should implement cost-effective conservation measures and programs in their service

The state's electric and gas utilities should work closely with WSEO and the WUTC to integrate

• WSEO--in cooperation with the WUTC, utilities, the Bonneville Power Administration (BPA), and the Northwest Power Planning Council (NWPPC)--should provide a report to the governor and legislature clearly identifying the nature and extent of savings available from cost-effective

WUTC should change its line extension policy to develop new pricing methods to permit

The state should encourage electric utilities to consider fuel choice as a resource in their least-cost

The state should encourage BPA to review its new experiment fuel choice program and refine it

The state's gas and electric utilities should provide clear information to support cost-effective fuel

• WSEO--in coordination with the state's electric and gas utilities and customers--should develop

to determine its potential as an indigenous gas supply that could be developed without new

• The state should support the aggressive pursuit of all cost-effective conservation and efficiency

The state should support the effort to develop and implement regulatory approaches that align private utilities' financial interests with the successful implementations of their least-cost plans.

conservation investments in service areas of public utilities--both larger utilities in major urban

The state should regularly revise state commercial and residential building codes to achieve the

The state and region should take full advantage of all federal funds available for supporting

The State Board for Community and Technical Colleges and the Higher Education Coordinating Board should develop curricula and provide training and certification programs for energy-related

The state should vigorously pursue programs that ensure that public buildings are constructed and

• The state should support cooperative multi-state analyses of the opportunity for greater seasonal

BPA should improve policies to boost access to interstate transmission lines and should examine

The U.S. Bureau of Reclamation and the U.S. Army Corps of Engineers should include turbine efficiency improvements in their budgets and promptly implement measures, in view of rising

• Utilities and BPA should experiment with targeted solicitations for renewable resources that are

• The Power Council, BPA, WUTC, and utilities should move quickly to improve their ability to

• The state should consider renewable energy projects, such as wind turbines suitable on parcels of

• The state should support wide dissemination to homeowners and building operators of

information describing practical opportunities to improve the efficiency of buildings using

• The state should support funding that addresses the energy needs of low-income citizens.

Attorney General, and electric and gas utilities to ensure that low-income weatherization programs address energy savings for the largest number of low-income citizens possible.

• The state should support education activities that increase the energy literacy of Washington

WSEO should survey utilities and building operators and advise the Higher Education

the second phase of the "Energy, Food, and You" curriculum.

• The legislature should provide funds to the Superintendent of Public Instruction (SPI) to produce

Coordinating Board about what program should be developed to train technicians and system operators for conservation and efficiency work in the residential, commercial, and industrial

• The state's universities should examine their engineering and architecture programs to ensure that tomorrow's professional graduates are prepared to design facilities of all kinds with energy use in

• Higher education programs should include energy education units in pre-service teacher training.

• WSEO should develop a more comprehensive inventory and projection of carbon dioxide and other greenhouse gas emissions and identify the most cost-effective measures for meeting

• The state should urge our Congressional delegation to support a national carbon dioxide and

• BPA and the state's electric utilities should incorporate quantifiable costs, including

• The state encourages more comprehensive assessment of environmental costs in all energy

• The new governor should instruct his cabinet to focus its attention on implementing the provisions of the state energy strategy using existing rules, but avoiding costly duplication and ensuring rapid

• WSEO should take the lead in ensuring that supply and conversation projects consistent with the strategy receive fair and rapid treatment by the many state, federal, and local agencies that must

particularly for renewable technologies, so as to narrow the number of issues requiring study

• The legislature should form a siting review panel, similar to the State Environmental Policy Act Review Panel of 1982-83, to develop revised state siting procedures and legislation to implement

WSEO should play a leadership role in state government to support the development of new

• WSEO should take a supportive role with other state agencies, local governments, schools, and

WSEO should conduct a number of studies, track certain technological changes, and prepare a number of reports that will provide for timely and informed future decisions concerning energy.

BPA and investor-owned utilities should consider funding generic impact investigations,

• WSEO should improve and realign current programs to fit the energy strategy.

**Guiding Principles and Recommendations** 

The Washington Energy Strategy Committee represented a broad base of views, including local government, business and industry, the environmental community, electric and gas utilities, and

Implement cost-effective energy policies that minimize environmental damage.

• Lead by example with energy efficiency in state and local government operations.

Use sound scientific data and analysis as the basis for energy policy.

petroleum suppliers. The members agreed to the following set of common principles and objectives to

Foster mutually beneficial relationships with nearby states and provinces to help accomplish

• Use market forces--including fair competition and consumer choices--where possible, along with

• Respond creatively and prospectively to political, social, and environmental changes affecting the

• Maintain programs that ensure that all citizens, including those on small incomes, have access to

• Cultivate diversity in energy supply, including new technologies and renewable resources such as wind, geothermal, hydro, biomass, and solar technologies, where a modest initial investment can

Ted Bottiger

Ted Coates

Seattle City Light

Ray Corpuz, Jr.

City of Tacoma

K.C. Golden

Wanda Haas

Former President

Ronald J. Kiracofe

Refinery Manager

Pat Mummey

Bob Waldo

Chair

The Committee also relied on the citizen input to formulate its recommendations. Citizens from across the state made their opinions known during a series of public meetings held August-September 1992.

Commissioner

Spokane County

David A. White

Arco Products Company

Executive Director

Manager

Washington Member

Northwest Power Planning Council

Director, Energy Resource Planning

Northwest Conservation Act Coalition

League of Women Voters of Washington

Energy Facility Site Evaluation Council

Manager, Market Development

Northwest Pipeline Corporation

• Ensure broad participation by the state's citizens in the Strategy and provide information and

energy resources that are consistent with the strategy.

others to integrate energy issues in their plans and decisions.

The Department of Community Development (DCD) should work with WSEO, the Office of the

The state should support actions to improve efficiency in the use of non-utility fuels in public

regional power demand and the low cost and impact of there resources.

evaluate the full range of benefits from renewable energy technologies.

BPA and the investor-owned gas and electric utilities should cooperate in the development of a set of standard and uniform principles for evaluating cost effectiveness and verifying the performance

BPA should develop better incentives and market conditions to ensure the successes of

• WSEO should develop ways to track the efficiency of natural gas use in the state.

WSEO and the Department of Natural Resources (DNR) should closely monitor coal bed methane

where it can be shown that fuel choice is cost effective and reduces the need to use gas for

WSEO should work with other interested parties to develop models for planners that demonstrate energy implications of alternative urban designs, should work with local governments to enact solar access ordinances, and should advocate comprehensive plans that preserve opportunities for

Revenue alternatives that merit consideration include: raising the fuel tax, extending the sales tax

• WSEO and Ecology should explore the development of a cooperative West Coast (British

duplication of effort, and development of a larger market for low-emission vehicles.

regulatory mechanisms that promote cost-effective and efficient use of fuel.

• WSDOT should examine ways to promote broader use of rail freight options.

The WUTC and telecommunications companies should consider tariffs to encourage widespread

assess the long-term ability of communications technology to substitute for transportation. The state should encourage the establishment of centralized "telework centers" in urban and

• The state should locate significant state office facilities in non-metropolitan areas, using

WSEO should promote successful implementation of the Commute Trip Reduction Law,

encouraging employer and employee use of transportation demand management.

o selects a mix of options designed to meet overall system goals at the lowest cost to society.

o fairly evaluates the costs of both demand-side and supply-side options.

Siting process for energy facilities need to address five points: the need for the facility; safety and health

The Committee agreed that, in the near term, it is of paramount importance to make existing rules and procedures function as smoothly as possible. There is considerable opportunity to improve the permitting

strategies to achieve environmental objectives at least cost with maximum choice.

deliberate action to ensure a continued adequate, reliable and low-cost supply of electricity.

The challenges facing the electricity system will require timely development of a number of new

must be concerned about price, pipeline capacity, reliability, and growth in demand.

efficiency, rural development and environmental protection, and reduces congestion and pollution. The Act has created more flexibility in transportation funding, and requires states to spend ISTEA dollars in ways that reduce congestion and energy use and improve air quality. It also provides a real opportunity for Washington State to develop a transportation system that better serves the public and is more energy efficient. To take advantage of this opportunity, Washington needs to build a transportation planning

governor, began its task of developing a comprehensive statewide energy strategy. At that time, the region's electricity surplus had been exhausted; the transportation system was approaching gridlock;

o Environment

Energy Facilities Siting

 Role of State Energy Office • Guiding Principles and Recommendations

Washington Energy Strategy Committee

species were testing the capacity of the hydroelectric system.

**Major Areas of Discussion** 

Transportation Challenges

growing dependence on petroleum fuels.

efficiency of freight and vehicle transportation.

Energy for Buildings, Farms, and Industry

availability of gas may aid in solving our energy problems.

all of these new resources, rather than focusing on just one.

or we identify further opportunities, we can expect even greater results.

some gas-fired generation.

**Protecting Our Environment** 

Siting Energy Facilities

raised--and potentially resolved--by others.

process without any new legal authority.

**Public Awareness and Education** 

**Transportation** 

Least-cost planning

process that:

vanpool use.

suburban areas.

Using alternative fuels

vehicles.

Improving freight mobility

transportation corridors.

and lower-emission vehicles.

decrease vehicle efficiency.

transportation needs besides highways.

energy implications of different growth planning strategies.

Growth planning for energy efficiency

efficient renewable energy projects.

comprehensive least-cost planning.

their least-cost planning.

electricity generation.

interstate pipeline capacity.

Conservation in use of electricity

region's conservation targets.

operated to use energy efficiently.

electricity exchanges along the Pacific Coast.

land designated as range land or open space.

specializations.

Improving system efficiencies

shared ownership options.

nearly competitive with gas.

petroleum, coal, and wood.

Renewable energy sources

Non-utility fuels

buildings.

Energy education

citizens.

sectors.

mind.

**Environment** 

Carbon dioxide and global warming

greenhouse gas emission target.

sectors, not just electricity planning.

**Energy Facilities Siting** 

decision making.

during actual siting.

**Role of State Energy Office** 

guide their thinking and decision making.

Washington's energy goals.

use and supply of energy.

Chair:

Jim Waldo, Attorney

**Committee Members:** 

Washington State Senate

Utilities and Transportation Commission

Washington State House of Representatives

Public Utility District No. 1 of Douglas County

Washington Natural Gas Company

Washington Environmental Council

Vice President, Corporate Planning

Puget Sound Power & Light Company

Bellevue Square/Bellevue Properties

Neil Amondson

Senator

Dick Casad Commissioner

David Cooper Representative

T. James Davis

Commissioner

Robert R. Golliver

Nancy Holbrook

Corey Knutsen

Keith Prehm

Carl West

CSM, General Manager

Energy Supply Manager

Weyerhaeuser Company

Martin Wistisen

Agri-Northwest

President

Energy Committee Chair

President

Gordon Thomas Honeywell

help develop cost-effective resources.

education to enhance understanding.

• Implement all cost-effective energy conservation.

clear, fair rules and laws to accomplish our objectives.

such basic energy services as heating, lighting, and mobility.

Washington Energy Strategy Committee

review them.

them.

Environmental regulation and energy decision making

environmental costs, into least-cost planning and modeling.

emission targets.

Low-income assistance

**Energy For Building, Farms, Industry** 

territories consistent with their least-cost plans.

recovery of costs from lower volume lines.

planning and to implement appropriate programs.

regular statewide estimates of natural gas use.

opportunities in both public and private utility markets.

growth areas and smaller utilities in slow-load growth areas.

of BPA and utility-financed conservation measures.

conservation "technology transfer" and demonstration.

Average Fuel Efficiency (CAFE) standards.

Improving vehicle efficiency

poor performance.

Funding alternatives

technologies.

Natural gas planning

fuel choice.

choices.

Gas policy and siting

goals.

should track those experiments.

o involves the public.

Vancouver, B.C., to Portland corridor.

Developing substitutes for transportation

and foot transportation directly into core city areas.

of highways would be charged during peak period.

telecommunications to provide needed information links.

organizations to develop video conferencing as an alternative to travel.

when results of alternative fuel experiments are clearly known.

establish a clearer basis than now exists for differential tax treatment.

access to services providing simultaneous transmission of voice and data.

government agencies and the private sector.

Changing the ways people travel

energy situation. The major topics are briefly outlined below.

process that is integrated, comprehensive, and aimed at the right target.

new investments in conservation, fish and wildlife programs, and transmission.

Why a State Strategy?

opportunities today.

o Energy for Buildings, Farms, Industry

**Action** 

Washington's Energy Strategy: An Invitation to

Strategy.

ENERGY STRATEG

WASHINGTON'S

**Highlights** 

o Transportation